

# FOLIO

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UNIVERSITY OF ALBERTA  
16 JUNE 1995



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- Doug Owram says improvement to teaching evaluations will come (p 2)
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## Province, University say, 'Bravo, Glaxo!'

### Glaxo Heritage Research Institute opens, Tyrrell leads team of Hepatitis B, AIDS investigators

By Ron Thomas

The full house at the Timms Centre for the Arts rose as one at the 6 June opening of the Glaxo Heritage Research Institute to show their enthusiasm for the Institute's potential. This occurred just after the closing speaker, Dean of Medicine Lorne Tyrrell, said researchers couldn't promise a breakthrough on the Hepatitis B and AIDS fronts but that with the Institute, at least they have a chance.

Also triggering the lengthy standing ovation was the confidence etched on Dr Tyrrell's features and the thumbs-up signal he gave upon returning to his seat on the stage.

There was a strong sense of unity, of being able to get on with the task, as the facility was officially opened by Premier Ralph Klein. Other participants in the opening ceremony were: Glaxo President and CEO Paul Lucas, President Rod Fraser, Vice-President (Research) Martha Piper, AHFMR Board Chairman Al Libin, and Dr Tyrrell. The task is to develop better treatments for viral diseases like Hepatitis B and HIV/AIDS.

"We are pleased that, of all the research centres in Canada, Glaxo chose the University of Alberta," said Dr Fraser. "It shows the strongest possible confidence in our researchers and scientists, our capability as a research university, and our willingness to partner with industry."

"It is through partnerships such as this one, that our faculty members have the opportunity to conduct research which could not otherwise be funded."

Glaxo Canada Inc, one of Canada's leading research-based pharmaceutical companies, is the principal partner, working in collaboration with the Province of

Alberta, the University Hospitals Foundation and the Alberta Heritage Foundation for Medical Research. The Institute was established in 1992 with \$800,000 in start-up funding from Glaxo; the firm's total contribution to the Institute to date is \$5 million.

Glaxo recently completed a \$2 million, three-year research contract with Dr Tyrrell, out of which came the discovery of the potential use of nucleosides in the treatment of Hepatitis B, a previously untreatable disease. The contract has now been extended, meaning that Glaxo will contribute \$2.6 million in funding over the next three years.

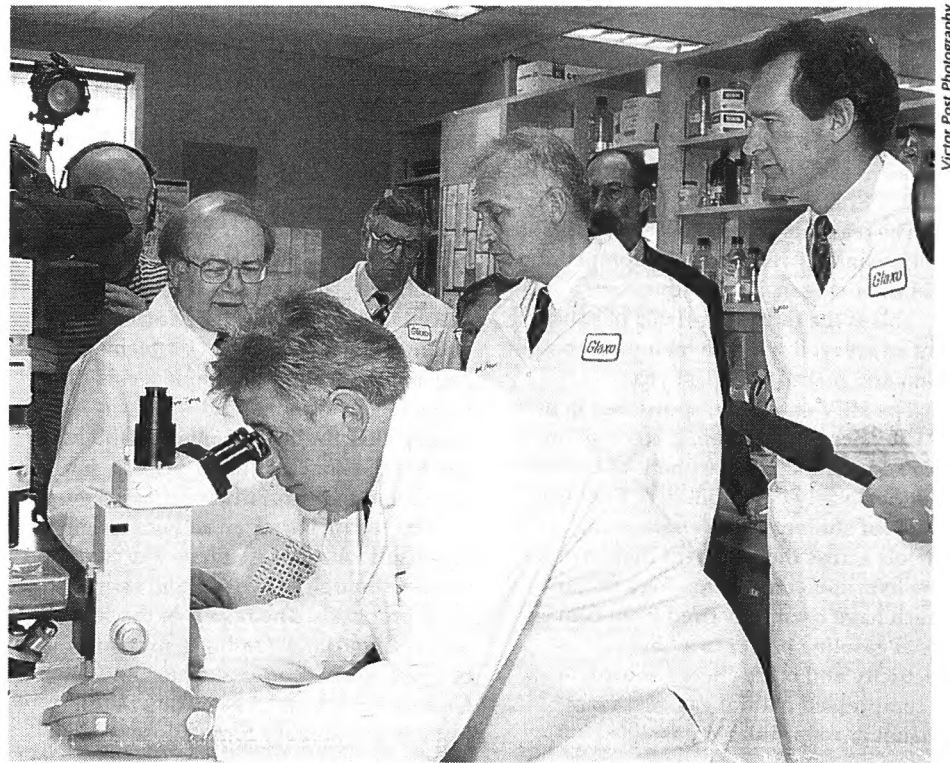
The Institute is a model of business, science and the community working together, Premier Klein stated. "It's a fine example of the Alberta advantage at work."

Dr Piper also spoke of the value of a joint effort, saying "all of us working together to unlock the mysteries of [viral disease] research makes sense."

"It's [research at the Institute] advanced science that will make a difference in everyday life worldwide," Lucas said. He also said Dr Tyrrell and his colleagues are worldclass scientists and Alberta is lucky to have them.

Libin called the Institute an investment in excellence and said partnership funding is a key to keeping research talent in the province. "The Institute will put Alberta on the map for virology research."

Dr Tyrrell is a leading researcher of the mechanism (pathogenesis) of viral diseases, particularly Hepatitis B. Working with him at the Institute are principal researchers Dr John Elliott, of the Department of Medical Microbiology and Immunology, and Dr



Premier Ralph Klein got the big picture and the small one when he toured the Glaxo Heritage Research Institute 6 June. He was accompanied by, from left, in lab coats, Dean of Medicine Lorne Tyrrell; Al Libin, Chairman of the AHFMR Board; President Rod Fraser; and Glaxo President and CEO Paul Lucas.

Lung-Ji Chang, formerly of the United States National Institute of Health, and 16 other scientists. Drs Tyrrell and Elliott will carry out research on Hepatitis B and C; Dr Chang will lead the AIDS research drive.

Located on the west half of the sixth floor of the Heritage Medical Research Building, the Glaxo Heritage Research Institute contains a Level II lab for Hepatitis B research and a Level III lab for AIDS re-

search. The latter "probably has the highest standard in Canada," said Dr Chang, who came to Edmonton because of the high level of support for Dr Tyrrell's research.

The lab, which was commissioned by the federal government, is double-locked and air is drawn in but not let out. Communication with researchers and technicians outside the lab is handled via intercom.

## City's most significant art exhibition slated for FAB Gallery

### Rich array of old masters' drawings

By Michael Robb

The most significant art exhibition ever to occur in Edmonton will take place on this campus, at the Fine Arts Building Gallery.

*Rubens to Picasso—Four Centuries of Master Drawings*, 16 September to 30 October, will feature approximately 150 drawings by some of the world's most famous artists: Rubens, Cezanne, Goya, Degas, Manet, Monet, Van Gogh, Picasso and Matisse.

"This exclusive exhibition is a major cultural and artistic event," Art and Design Chair Desmond Rochfort said Monday at a press conference. "The list of 64 artists reads like a compendium of art history."

"This is truly a first, not just for the U of A, but for the City of Edmonton and the

Continued on page 3



Vincent Van Gogh, Worn Out: At Eternity's Gate (1890), pen and gray-black ink

## Senate task force calls for 'student-centred, technology-enabled learning environment'

By Michael Robb

The University of Alberta must integrate multimedia and technology-based systems with the more traditional methods of classroom instruction in order to serve students locally, regionally, nationally and globally.

And says the Draft Report of the Senate Task Force on Technology in Learning, senior administrators must formally state their commitment to the development and optimal use of technology to support a student-centred, technology-enabled learning environment.

"There has to be an institutional commitment to change, and we feel that the administration has to be committed right from the beginning," says task force chair and Senate member Dianne Storey. "We

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Rubens to Picasso  
Four Centuries of Master Drawings



# GFC endorses revisions to teaching evaluations, student ratings of instruction

## Motion to allow some professors to opt out fails

By Michael Robb

General Faculties Council has approved revisions to the GFC Policy Manual governing teaching evaluations and universal student ratings of instruction.

An amendment put forward by the President of AAS:UA to allow professors to request in writing that their student evaluation results for the term not be published was turned down by GFC.

"There remains some concern about students receiving the evaluations. For some faculty members this is an issue of principle," acknowledged incoming Vice-President (Academic) Doug Owram.

## U of A wins hybrid electric vehicle competition—again!

By Folio staff

The University of Alberta's hybrid electric vehicle project has placed first overall in the third annual Hybrid Electric Vehicle Challenge.

The team also won the team spirit and sportsmanship awards in the competition held in Michigan, 5 to 13 June.

This is the third year the U of A has sent an entry; it won the inaugural competition and placed third last year.

The HEV challenge, sponsored in part by Chrysler Corporation, is a competition created by the US Department of Energy and the Society of Automotive Engineers. Teams of students from engineering schools across the continent demonstrate new hybrid-electric technology on cars which have been converted from conventional gasoline power to a "hybrid" of electricity and other energy sources such as compressed natural gas, methanol, ethanol or reformulated gasoline.

"There's some concern about flexibility. Faculties and deans made it clear they wanted the ability to construct questionnaires for their types of courses. We've tried to address that."

Dr Owram said it is not possible to get a consensus on all the issues. "There's no set of questions, no set of administrative proposals that can bring everyone together," he told GFC last Friday. "Given the diversity of people and the diversity of opinions, it was in fact a very positive experience."

"Once we accepted the fact that something had to be done, we worked together very positively in order to put together the best package we thought possible. GFC may like this package or hate it, but I think the most useless thing you could do is to send it back for further discussion. We've worked with chairs, faculty, students and the AAS:UA, and we've put together a workable and flexible solution."

Dr Owram reminded GFC that a policy is already in place, passed in October 1993, and a set of evaluations has already gone to the Students' Union and is available to students.

When it began to go from principle to implementation, two things became apparent: first, there were issues that hadn't been thought of such as administration and how to handle certain problems, he explained. Second, the simple fact is that many faculty only noticed what was happening after the implementation and began to raise concerns on principles, substance and technicalities.

Dr Owram struck an ad hoc committee to consult with stakeholders. The committee met through the winter and formulated proposals: The results of the seven universal questions rating instruction shall be given to the Students' Union and the Graduate Students' Association in full numerical summary form. Those student organizations shall make the results available only to University of Alberta students.

The universal student ratings of instruction shall contain the following questions:

1. My university year is 1=first, 2=second, 3=third, 4=fourth, 5=post-degree
2. This course was 1=a requirement, 2=an elective, 3=other
3. The instructor spoke audibly and clearly. 1. Strongly Disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly Agree
4. The instructor was accessible outside of class. 1. Strongly Disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly Agree
5. The instructor treated the students with respect. 1. Strongly Disagree 2. Disagree 3. Neutral 4. Agree 5. Strongly Agree
6. Overall the instructor is 1. Poor 2. Fair 3. Acceptable 4. Very Good 5. Excellent
7. Overall this course is 1. Poor 2. Fair 3. Acceptable 4. Very Good 5. Excellent

A student-sponsored amendment to include two additional questions about presenting material in a well organized and coherent manner and explaining concepts and ideas well was defeated by GFC, 29-33.

"Questions six and seven are really unfortunately constructed and probably not very helpful in terms of trying to get an assessment for any purpose," Michael Asch (Anthropology) said.

Improvement will come through working with the questionnaires, Dr Owram said. "And it will come through chairs accepting the fact that this is one possible means of evaluating instructors, not the only means," he said. "The notion of multifaceted evaluations is very much a part of this."

Much of the discussion at GFC dealt with the proposed amendment. It read: "Instructors may, before the end of the first week of term, request in writing of the Vice-President (Academic) that their results for that term not be published. The published evaluation will then contain the message 'Student evaluations for this course are not being published by request of the instructor' where the instructor's results should otherwise have appeared."

AAS:UA President Ann McDougall said there are a small number of faculty

members who, for valid, principled reasons, oppose the public nature of student evaluations and the imperfect nature of the questions. In its written rationale for the amendment, the AAS:UA stated: "We think it is much better for all concerned, if, say, 95 percent of instructors voluntarily submit to publication, than if 100 percent are forced to do so. This one amendment would quash most remaining objections to this policy. In particular, we should emphasize that some professors have threatened legal action."

"It is the view of the AAS:UA that if compliance was voluntary, almost all faculty would comply (especially as noncompliance would require effort, advance planning, and the risk of embarrassment). We recognize that if we are mistaken in our prediction—if more than a small percentage opt out—GFC would need to consider making publication mandatory."

Dean of Science Dick Peter said, "I think we should be brave enough to publish the results of our student course evaluations. I think we should be able to deal with our teaching performance in an open way. Having the student evaluations not published does not serve the student, instructor or University well."

If the University found that large numbers of faculty were opting out, it would likely indicate large numbers of faculty do not have trust in the instrument, said Sociology Professor Derek Sayer. That would be a good reason for reviewing the questions.

Students' Union President Garret Poston said the idea of an opting out clause was not well received by SU Council members. Right now the Board of Governors is under pressure from the provincial government and the public, who are calling for accountability in postsecondary institutions in the province, he said. "The fact that all instructors' [results] are published is an element of accountability."

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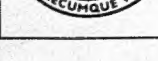
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## GFC approves one-plus-three BEd degree program

General Faculties Council, last Friday at its last regular meeting before September, endorsed a Faculty of Education proposal for a Bachelor of Education Degree program one-plus-three model. The proposal follows on the heels of GFC's rejection of a two-plus-two BEd proposal.

Beginning in 1996, the Faculty will no longer admit first-year students. In 1997, the Faculty will admit students into the second year of the three-year program. The first graduates of the program are expected to graduate in 2000.

The changes will result in a shift of workloads to other faculties, Dean of Arts Pat Clements told GFC. How that will be funded has yet to be addressed by the University administration, she said, adding that the issue will no doubt continue to be a topic of discussion.

According to Dean of Education Harvey Zingle, the proposed changes are a direct result of the program review process under way since April 1993. "The proposed new courses, as well as the increased emphasis on faculty involvement in the practicum, are concrete illustrations of the new direction which the Faculty is taking."

The one-plus-three model is also a result of fiscal realities, GFC debate and recommendations in the restructuring document, *Quality First*.

## New biological sciences programs approved

GFC endorsed proposals from the Faculty of Science to establish Bachelor of



Science with Honors and Bachelor of Science with Specialization in Biological Sciences degree programs. Correspondingly, the Bachelor of Science with Honors and with Specialization degree programs in Botany, Cell Biotechnology, Entomology, Environmental Biology, Genetics, Microbiology and Zoology (which includes the honors route in cell biology and physiology) will be deleted.

The changes, said Dean Dick Peter, look to the future and will afford students wanting to study in the biological sciences more flexibility. The changes also eliminate a lot of course material redundancies.

All students in honors and specialization biological science will take a common core of courses in the first and second year. The honors and specialization programs are the most desirable route for students who want to pursue higher degrees and a research or academic career in pure or applied aspects of biological science.

## Two departments in Medicine merge

The Department of Medical Microbiology and Infectious Diseases and the Department of Immunology will merge to form the Department of Medical Microbiology and Immunology. The merger is a response to the *Quality First* recommendation directing the Faculty of Medicine to en-

courage interdisciplinary research and save on administrative costs.

The Department of Immunology lost academic staff through recruitment to other academic institutions and industry as well as untimely death. In its supporting documentation, the Faculty suggests it's not likely that a critical mass of new staff can be assembled in the current fiscal environment.

The two departments have been functioning more or less as a merged department for the last six months, Associate Dean of the Faculty, Ruth Collins-Nakai, told GFC.

Program changes will be considered by the Board of Governors.

## Access to modem pool criticized

Biological Sciences Professor Gerald Stemke says evening access to the University's modem pool is not acceptable. "I have a multiple dialer for my hookup and it often goes through its 30 tries without success. I am not too willing to wait until 1:30 am for access during the school year."

Earlier last month Computing and Network Services advised the campus that, because of budget restrictions, the modem pool would not be expanded this year. It encouraged the campus to subscribe to the Ed Tel U of A modem pool access service, or to one of the commercial Internet services.

Dr Stemke said the policy will restrict the use of the system and will have the greatest negative effect on students, who can least afford to pay for the service.

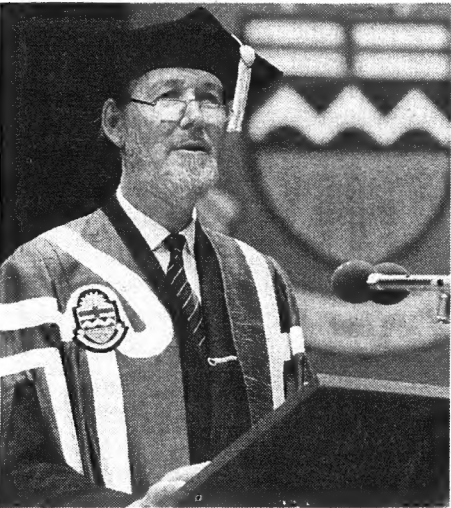
The debate on the issue will not be going away, President Rod Fraser said.



# Mactaggart recognized for his commitment to education

## Fisher Award will be presented in July

By Folio staff



Sandy Mactaggart, former Chancellor of the University of Alberta

Former Chancellor Sandy Mactaggart will be awarded the 1995 James L Fisher Award for Distinguished Service to Education.

The award, presented for more than four decades, is presented annually by the Council for the Advancement and Support of Education to recognize extraordinary service to education of national and international significance. The award can be presented to individuals, organizations, foundations, corporations or publications.

Mactaggart, a prominent Edmonton businessman, has been a longtime supporter of several educational institutions—including the University of Alberta. He has had long-standing relationships with the U of A, Lakefield College School in Ontario, the Choate School in New England, Harvard University and the American University in Beirut.

The award will be presented to Mactaggart at the CASE annual assembly in New York City, 10 July.

# Dancik, Decore new Associate Vice-Presidents (Academic)

By Folio staff

The appointments of Bruce Dancik and Anne Marie Decore as Associate Vice-Presidents (Academic) were announced this week by President Rod Fraser.

Dr Dancik, who has been at the University of Alberta since 1973, currently is Professor and Chair of the Department of Renewable Resources in the Faculty of Agriculture, Forestry, and Home Economics. His research focuses on population genetics of forest trees. He teaches dendrology (tree and shrub identification and basic biology) and forest genetics.

"I have some regret leaving this new department which was established only last September," says Dr Dancik, but I always like new challenges." Dr Dancik, who takes office 1 July, says he expects to continue as Editor-in-Chief for the 14 National Research Council of Canada journals, a position he has held since 1990, following three years as Assistant Editor-in-Chief.

Dr Dancik's considerable editorial experience includes 10 years (1980-1990) as Editor of the *Canadian Journal of Forest Research*, the top-ranking forestry journal in the world (1987 Journal Citations Reports, Institute of Scientific Information).

Most of Dr Dancik's first 30 years were spent in Illinois, Wisconsin and Michigan. He earned his BS (forestry), MF and PhD (forest genetics and ecology) degrees from the University of Michigan before coming to Alberta.

In addition to his University responsibilities and extensive activities as a reviewer and consultant, Dr Dancik has served on at least 16 governmental or public service committees or boards. In 1978, he chaired hearings for the Environment Council of Alberta and authored the resulting report on Environmental Effects of Forestry Operations in Alberta. In 1989-90, he chaired a panel reviewing proposed forestry developments in northern Alberta for the Minister of Forestry, Lands and Wildlife. Their report, "Forest Management in Alberta," was released in August 1990.

Dr Dancik received a Distinguished Alumnus Award from the University of Michigan in 1989, and a Tree of Life Award from the Canadian Institute of Forestry in 1993.

Anne Marie Decore, Associate Dean, Undergraduate Programs, in the Faculty of Education, will become Associate Vice-President (Academic) on or about 1 August.

Dr Decore's home department is Educational Foundations. She began her affiliation with it in 1970, following two years as a research officer with the Human Resources Research Council in Edmonton. Her degrees—BA (with distinction), MA in Sociology, and PhD in Sociology—were earned at the University of Alberta.

"My research," she says, "has involved a variety of research methods but has had a consistent focus on Canadian society, particularly labour force participation, women in education and work and the link between the educational, political and economic structures in Canada."

Two articles published in the 1990s exemplify her work: "The Employment Experience of Recent Education Graduates and (with RS Pannu) "Alberta Political Economy in Crisis: Whither Education."

The bulk of Dr Decore's teaching has been in a variety of Sociology of Education



Bruce Dancik



Anne Marie Decore

courses at the senior undergraduate level and Research, Sociology of Education and Social Theory courses at the graduate level.

In her 25 years at this University, Dr Decore has served on numerous departmental, Faculty and University committees, including Academic Development Committee; Scholarship Committee, Faculty of Graduate Studies and Research; School of Native Studies, Faculty Council; and Vice-President's (Research) Task Force on Women in Science, Engineering and Scholarship.

She has also served on the Board of Governors of Athabasca University, the National Council of Welfare and, more recently, the Board of Governors of Brentwood College.

# Last summer for heritage tree

By Elsa Roehr

The 50-year-old flowering crab apple tree that was attacked with an axe earlier this year has leafed out. But it won't survive.

Folio reported the vandalism on 17 February this year. The tree was girdled: its bark and sap layers were cut through in a ring around the base of the tree. At that time, the act was called " ... a death sentence unless extraordinary grafting measures are able to work."

Those extraordinary measures have been taken. But it was too large a wound on too old a tree.

"It is a sad day. There is nothing more we can do at this point," says Grounds Manager Wayne McCutcheon. "We did some bridge grafting, but grafting is usu-

ally done on younger stock. The tree was under stress to begin with from the shock of transplanting the year before. This was just too much, too soon."

The half-century-old tree was moved to the north side of the Education complex from the site of the Timms Centre for the Arts to save it for posterity. "It was actually doing very well, despite the shock of transplanting," says McCutcheon.

The tree leafed out on the nourishment and moisture stored above the wound.

Several smaller trees have already been planted so, when the old tree comes down, it won't leave so much of a hole in the landscaping.

There are no leads on who may have committed this act of vandalism.

# Rubens to Picasso

Continued from page 1

province," added Board of Governors Chair John Ferguson.

The works are on loan from North American and British private collectors—who asked for anonymity as a condition of loaning their treasures.

The exhibition, about two years in the planning, will include studies for some of the most important paintings in the Louvre in Paris, the National Gallery of London and the Chicago Institute of Art. A rarely seen series of drawings by Picasso from the period when he was a student at the Barce-

lona Academy in the late 19th century will be in the exhibit, as will a drawing study by Picasso from May 1937 that relates to his masterpiece *Guernica*, which he painted during the Spanish Civil War.

There will also be a series of drawings by the French post-impressionist painter Georges Seurat for his masterworks *The Bather*, in the National Gallery in London, and *Sunday Afternoon on the Grand Jatte*, in the Art Institute of Chicago.

University of Alberta Museums and Special Collections Services' Bernd Hildebrandt and Jim Corrigan will design the exhibition, and Art History Professor Victor Chan will write the accompanying 150-page catalogue. Renovations will be made to the FAB Gallery this summer in

preparation for the exhibition. Three special opening receptions for the exhibition will be held the evening of 13, 14 and 15 September. The exhibition will open to the public on the 16th.

The Department of Art and Design expects it will cost about \$135,000 to mount the show. Much of that money is being donated by sponsoring corporations, media organizations, individuals and the University of Alberta. Dr Rochfort pointed out that the exhibition simply wouldn't be possible without the strong support of the business community.

Organizers estimate conservatively that 20,000 people will see the exhibition. FAB Gallery will levy an admission charge.



Henri Toulouse-Lautrec, Seated Female Clown (Cha-u-ka-o) (1896), graphite

## LIST OF ARTISTS AND NUMBER OF WORKS THAT WILL BE SHOWN:

17TH CENTURY	
Callot (3)	
Caracci	
Flinck	
Guercino (2)	
Poussin (2)	
Rubens (5)	
van der Ast	
18TH CENTURY	
Chardin	
David (2)	
Flaxman (4)	

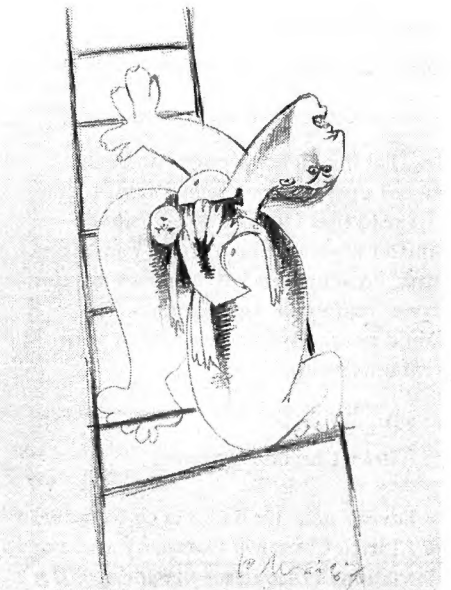
Fuseli	
Dance	
Fragonard (3)	
Greuze (6)	
Lancet	
Piranesi	
Maratta	
Oudry	
Nattier	
Robert	
Romney (5)	
Tiepolo (4)	
Watteau	
Piazetti	

19TH AND 20TH CENTURY	
Cezanne (2)	
Constable (2)	
Daumier	
Delacroix (4)	
Degas (6)	
Ensor	
Friedrich	
Gauguin (2)	
Gericault (2)	
Goya	

Hugo	
Guys	
Ingres	
Khnopff (2)	
Klimt	
Laurent	
Manet	
Monet (2)	
Moreau (3)	
Burne-Jones (5)	
Courbet	
Millet (3)	

Matisse (2)	
Mondrian (3)	
Klee (2)	
Munch (4)	
Picasso (10)	
Puvis De	
Chavannes (2)	
Kollwitz (2)	
Le Corbusier	
Redon (4)	
Rodin (4)	
Rossetti	

Schiele	
Seurat (7)	
Toulouse-Lautrec (2)	
Van Gogh	
West (2)	
Williamson (3)	
Klee	
Modigliani (3)	
Renoir (2)	
Braque	



Pablo Ruiz Y Picasso, Mother with Dean Child on a Ladder (1937), graphite



# Committee recommends keeping Michener Park

By Michael Robb

The Board of Governors is expected to consider a proposal that Michener Park be retained with a renewed mission to provide housing primarily for graduate students with children.

The proposal, put forward by the Board's Finance and Property Committee, also suggests appropriate policies be established to limit any cross subsidies from other residence operations.

The proposals were outlined by Housing and Food Services Director David Bruch for General Faculties Council members at their regular meeting last Friday. So far, said Bruch, the response to the proposals from the various constituent groups concerned about the future of the student residences has been very favourable.

The committee has suggested the management of Michener Park be vested in a management board, reporting to the Vice-President (Finance and Administration).

That board, which would take over 1 April 1996, would have two U of A representatives, three Michener Park Community Association representatives and two members from the neighbouring communities.

Other recommendations include: maintaining University responsibility for Galbraith House; developing a plan for disposing of Galbraith House for the Board's consideration in September; tendering for lease either by joint venture or on a development proposal basis the 16.4 acres of land not part of the residence portion of 25.5 acres (any proposal would have to include a draw-down schedule and a plan for the tennis centre); and, if the amount of cross-subsidy exceeds any agreed-upon total amount, the University would then proceed to dispose of Michener Park and identify alternatives for graduate student housing.

The Board will consider the proposals 30 June.

## Three U of A professors named Fellows of Royal Society

The Royal Society of Canada has elected 60 new Fellows, including three from the University of Alberta.

They are: Gordon Rostoker (Physics), David Bundle (Chemistry) and Tim Mosmann (Immunology). They will formally be inducted at a ceremony in the fall in Ottawa.

The election is an acknowledgement by their peers of the significant contributions the inductees are making in their scholarly fields.

## Flexibility the key for Killam Annual Professor

By Elsa Roehr

Richard Young won't be restricted; not in his teaching, and not in his research.

The new Chair of Modern Languages and Comparative Studies and Professor of Hispanics values flexibility. "I have rarely taught the same course more than once in exactly the same way. The constant renewal of material not only allows me to be aware of new resources in my discipline as they become available, but also helps to keep my courses fresh and my teaching spontaneous."

"He is one of the finest all-round undergraduate instructors we have. His accomplishments at the graduate level are even more laudable," says Robert Thornberry, former Chair of Romance Languages.

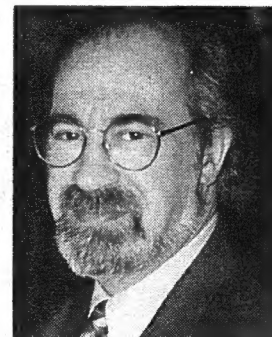
No one else in the Division of Romance Languages has taught such a wide variety of seminars, and no one has directed more PhD and MA theses in the department. Dr Young has an extremely high completion rate for students under his supervision.

"The instructor is one of the best I have had at this University" is a recurring comment despite, or maybe because of, his toughness and high expectations. He balances that toughness by spending time with his students, and they speak most highly of his ability to motivate.

Dr Young's research crosses centuries and genres. A quick look at his current research shows several projects on con-

temporary Argentine literature, including a second book on Argentine author Juan Cortázar. He is writing another book on post-modern fiction and is the principal researcher in a SSHRC-supported collaborative project on Latin America and post-modernity.

"Richard Young has become one of the most prominent and productive Hispanists in Canada, who is rapidly gaining an international reputation for his innovative and original work, resulting in his many invitations to visit other continents like Australia and South America," wrote John Walker, Professor of Spanish at Queen's University, in support of Dr Young's Killam award.



Killam Annual Professor  
Richard Young

Dr Young rounds out his teaching and research with a strong commitment to community service. He is serving a second term on the Publications Committee of the Canadian Federation of Humanities. He regularly assesses articles for several professional and Hispanic journals, and he is a founding member of APEDECHE, a nonprofit association that links the University and Edmonton's Hispanic community.

## LETTERS TO THE EDITOR

### President's strategic initiatives

President Fraser's strategic initiatives for '95-'96 disheartened me (*Folio*, 19 May). They can be categorized into the status quo, the obvious, or stated initiatives which are contradicted by the policies currently being pursued.

1) **Faculty renewal.** It isn't hard to predict that without faculty renewal we won't have much of a university left 10 years from now. In my department, however, there's loud gossip about who's leaving within the next two years, but merely whispers about any souls coming to replace them. We have been warned to anticipate a very significant increase in average teaching load. So the term 'faculty renewal' may mean something like "we'll give you one for every four or five we take away". In the retail sector this would be called misleading advertising.

2) **Exploration and development of information and telecommunications technology.** This began long before Dr Fraser arrived. Administrators (but not we who teach) tend to put much faith in the miracle that is to save us from the consequences of fewer staff. There may well be situations in which advanced technology can enhance learning (for example, I don't

know what I'd do without an overhead projector), but not if it's used merely to create a bunch of 'virtual classrooms'.

3) **Recruitment of outstanding students.** I wasn't aware that our University had been targeting only mediocre students up to now! We saw this platitude in *Degrees of Freedom* (1993) and in its predecessor *The Next Decade and Beyond* (1986). I'm waiting for the sequel. But haven't tuition fees doubled in the last five years and aren't they projected to double again within a few more years? My crystal ball shows quite the opposite of an influx of outstanding students. In the face of government threats to punish us severely if enrollment falls below a certain level, our administrators have only one obvious means to prevent this haemorrhage of cash: lower admission standards. I await their decisions with fearful anticipation. Ironically, in *The Next Decade and Beyond*, our leaders hinted at the necessity to reduce undergraduate enrollment here. Conventional wisdom of the time was that the University couldn't continue to offer quality programs for 28,000 students. By the time *Degrees of Freedom* appeared, the administration had made an about-face.

To contort Yogi Berra's aphorism, I guess 'decades' aren't as long as they used to be!

4) **Significantly improve the general learning environment for students.** Some major policies currently in effect are blatantly inimicable to this initiative. That's why I shake my head in disbelief to read a related quote from Dr Fraser further along in the *Folio* article. "Such a learning environment unleashes creative talent and an 'I can do it' attitude."

Dr Fraser's external initiatives were also found in the mission statements of previous administrations.

**Working with government** could be productive if we had one that was proud of its universities. But if we're to believe their public statements, our's seems neither to understand nor care about us. They meddle directly with our internal operations in ways that completely undermine what an outstanding university is supposed to be. For two absolutely frightening examples, read Minister (for Advanced Education and Career Development) Ady's White Paper, *New Directions for Adult Learning in Alberta*, and Gilles Cloutier's Discussion Paper, *Toward a*

*Policy Framework for University Research*. I wish you luck, Dr Fraser.

**Attracting professors who are international leaders in research and teaching** has long been a priority at this, and indeed every, large university. But how does a policy of reducing salaries and emasculating tenure support this initiative? Don't get me wrong, our administration probably had little ability to thwart these government 'initiatives'. But couldn't they at least have the courage to acknowledge the crisis we're facing here? Instead, they talk only about 'new opportunities', 'improved means for delivering services to greater numbers', etc. As Quintilian (the Roman rhetorician) wrote, "[they] give to necessity the praise of virtue".

I couldn't suppress a smile when I saw the diagram Dr Fraser apparently uses to present his mission at public appearances. A stubby, inert block, leaning in no particular direction, and virtually unintelligible without accompanying dialogue. What an appropriate symbol for these initiatives.

Reuben Kaufman  
Professor of Biological Sciences

### 'Making Sense ...' 'the only flaw' in his visit to Edmonton, guest lecturer says

Last month (April) my wife and I spent two delightful days at the University of Alberta. We were treated wonderfully well, my five lectures on the history of chemistry, the restoration of paintings, and on how the Dutch artists looked at the Bible were well-received, and when we left Edmonton, we marvelled at that combination of excellence in chemistry, the beauty of your city and the friendliness of your people.

The only flaw we noted was in a booklet we were given, "Making Sense ... of Research at the University of Alberta." It reminded me of what is so wrong all over the western world: so much is for show rather than substance. Millions of dollars

are spent on public relations and much of this is wasted.

The glossy booklet's stated purpose is "making sense". But look at the booklet and see how it fails in some essays. For instance, it describes a mathematics professor's investigation into "linear properties and geometric phenomena of convex bodies in a space" in language that not one in a thousand educated nonmathematicians can understand.

An economics professor "explores attitudes of decision makers to government spending. His research showed that while politicians regard the budget process as important to determining government spending, public servants see politi-

cal will as making the difference. 'Surprises like this are one of the reasons I enjoy research,' [he is quoted as saying]. 'You get a jolt from an unexpected result.'" I am still trying to figure out what this means.

Or look at the beautiful language of a religious studies professor: "The poetry and prose narrative of the Old Testament has as profound an insight into basic human questions as anything ever written. Its writers are brilliant." I wish I could write like that! And if that professor could have chosen a passage from the Bible, he might well have picked one from Amos or Isaiah, from Psalms or the Book of Ruth. But whoever did choose picked the third chapter of the Book of Malachi, one of the hardest-to-understand, nonpoetic passages imagina-

ble. That the Hebrew page has been printed upside down seems symptomatic.

I read that David Cooke, Canada's minister of education, hired a consulting firm, "Prosebusters", to translate his ministry's "bafflegab" into English. That should not really be necessary at your great university.

Alfred Bader  
Aldrich Chemical Company

*Editor's note:* Dr Bader is co-founder of the Aldrich Chemical Company and an internationally-known collector of 17th century Dutch and Flemish paintings. He was in Edmonton 10 and 11 April to deliver the 75th Chemical Society of Canada Conference lectures.



# FOCUS ON Faculties

## Engineering

Last in a series of profiles of the University of Alberta's Faculties

### FACULTY FACTS

The Faculty of Engineering offers undergraduate programs leading to BSc degrees in Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Engineering Physics, Mechanical Engineering, Metallurgical Engineering, Mining Engineering and Petroleum Engineering.

All engineering students follow a common curriculum in their first year. In March, students are asked to make a choice among the various disciplines offered and also between the traditional and cooperative education streams.

**Enrollment:** 550 first-year quota; 515 second-year quota; undergraduates, 2,456; graduate students, 505

**Graduate student breakdown:** 44 percent in PhD programs; 41 percent in MSc programs; 14 percent in MEng programs; one percent in combined MBA/MEng program; about 28 percent international students

**Faculty:** 122 in five departments  
**Operating budget, 1994-95:** \$16,197,904

**Trust/grant/contract research money, 1993-94:** almost \$10 million annually

**Centres and Institutes:** Alberta Home Heating Research Facility; Alberta Microelectronic Centre; Centre for Frontier Engineering Research; Mechanical Engineering Acoustics and Noise Unit; Telecommunications Research Laboratories; The Laser Institute; Advanced Engineered Materials Centre

## Engineering expertise will be key element in province's economic growth, says Acting Dean

*Engineering fortunate to have support of its alumni and friends*

By Michael Robb

Partnerships. The word's beginning to sound a little hackneyed in some quarters. But in the Faculty of Engineering, it's as meaningful as ever. It's a key word in the staff and student lexicon. Consider, for example, the integral partnership chemical engineering professors have with Syncrude Canada. How about the partnership electrical engineering professors have with Northern Telecom, TRLabs and the Alberta Microelectronic Centre. Or, the engineering students' partnership with local schools through the immensely successful Discover E program.

"None of this happens without committed people making it happen," says Acting Dean David Lynch. "In many cases, it takes a fair amount of hard work to seek out these opportunities for collaboration and to find that common ground. The partnerships also have to be mutually beneficial."

Those mutually beneficial relationships are the envy of many other engineering schools and faculties. The Faculty has an incredibly large number of supporters among its alumni, the corporate sector and in the general populace. More than a third of its sponsored research funding, for example, derives from sources other than the Natural Sciences and Engineering Research Council.

Dr Lynch foresees a great deal of work over the next several years building more of those partnerships between the University, industry and granting agencies. He's optimistic proposals under way for industrial research chairs and endowed chairs will pay dividends.

The corporate sector has also been a strong supporter of the Faculty's cooperative education program. "The cooperative education program has been one of this Faculty's key strengths," says Dr Lynch. Ken Porteous, Director of the Engineering Coop Centre, says the two recently approved Access Fund proposals, one in Chemical and one in Civil, will increase cooperative education program enrollments by about 40 percent, from the current 750 workterm placements per year to about 1,050.

With the appropriate planning and marketing, it can be done, he says, but the

big variable is the economy. A strong economy makes it much easier to place students, he explains.

The Faculty's successes in teaching, research and community service are founded on many pillars. One of those is its strong undergraduate program, borne out by consistently high accreditation reports. That's coupled with the extraordinary quality of the student body—undergraduate and graduate students. Since 1991, for example, the high school averages of first-year students has exceeded 81 percent. "We're definitely a location of choice for quality of students," says the Acting Dean. And about one-third of its 505 graduate students are international students.

One of those quality students is Fenna Wieseahn, a coop student and incoming President of the Engineering Students' Society. She says the faculty's commitment to students is a key strength of the Faculty. "Professors are genuinely concerned about whether students get a quality education."

This year, the Faculty created 50 \$1,000 undergraduate scholarships in its drive to

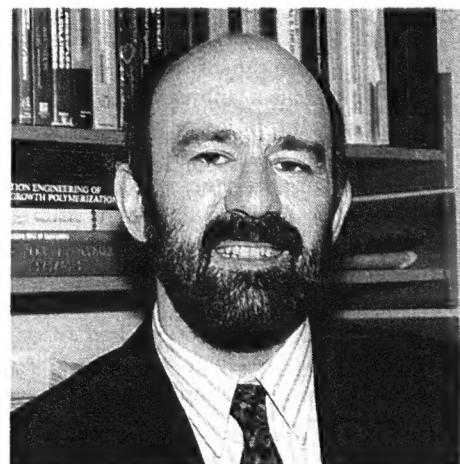
**"Professors are genuinely concerned about whether students get a quality education."**

*Fenna Wieseahn, President of the Engineering Students' Society*

attract the best and the brightest. "I'd like to see that number and value increase," Dr Lynch says, acknowledging that the competition for students is a national and international phenomenon. (Wieseahn is from Vancouver and chose the U of A, in part, because of the coop program's reputation.)

The Faculty is about to engage in another kind of competition—competing for outstanding young faculty members. Close to 50 percent of the Faculty's professoriate is expected to retire over the next decade. An early retirement package offered recently by the University may accelerate that process.

Managing things is going to be challenging, says the Acting Dean. The cohort



David Lynch

hired during the 1960s and '70s is moving through the system and is about to retire. The Faculty's excellent reputation is due to their contributions. Those professors will be replaced with new faculty members. However, not all of those professors will want to retire. The challenge, therefore, will be to integrate the younger faculty members into the older professors' research programs and groups, to ensure a smooth transition.

"Engineering is a team sport and little can be accomplished alone," Dr Lynch says, pointing out that giving new faculty members adequate support and infrastructure will be critical to their success. Mentors will be absolutely essential. And, he adds, as the Faculty enters this period, departments will be able to engage in longer term planning.

That planning will also involve other postsecondary institutions. "Our relationships with the community colleges is very important," he says, pointing out that the Faculty takes in significant numbers of transfer students in its second year.

Employment prospects are good, maintains the Acting Dean. A recent employment survey tracked Engineering graduates and found that by the November following graduation, three-quarters of the respondents were employed at an average salary of \$37,000. And yet, Alberta's two engineering schools are not meeting demand within the province. The provincial ratio of engineers to the general population is roughly two and one-half times the Canadian average, higher than Germany, Japan and the United States.

"That engineering expertise is a key element in the economic growth of the province," Dr Lynch concludes.

## Engineering students will hold referendum in fall

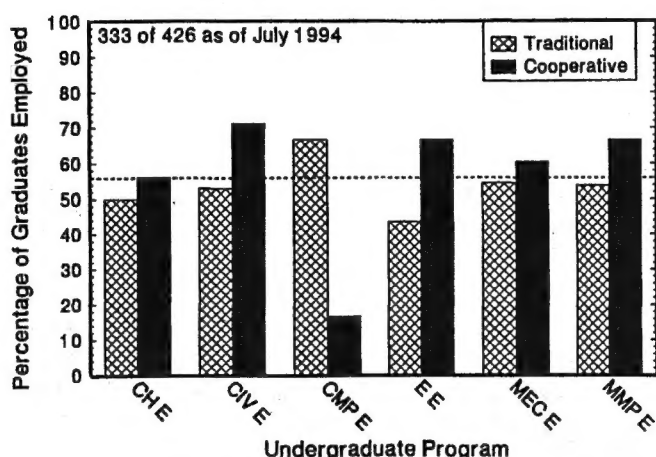
*Will be asked to kick in some money for equipment*

Engineering students this fall will likely be asked whether they would be willing to kick in some money for purchasing laboratory equipment.

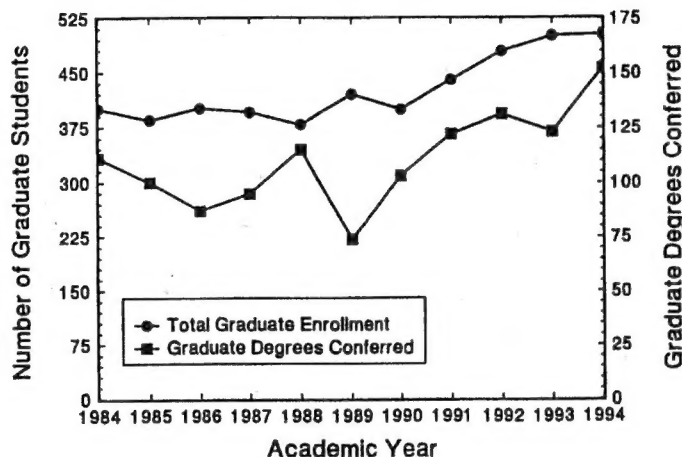
According to Fenna Wieseahn, incoming President of the Engineering Students' Society, a referendum will be held to ask students whether they would support an endowment fund for funding equipment purchases.

The Faculty has a lot of equipment needs, she said, and students and staff are concerned about the quality of laboratory equipment. She added that students are also concerned about the extent to which the Faculty has laid off valuable technicians and support staff.

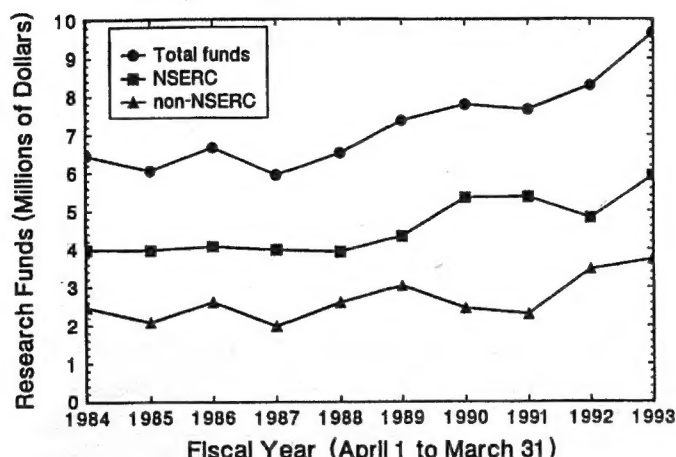
Please see page 6 for story on Chemical Engineering's Coop Education programs.



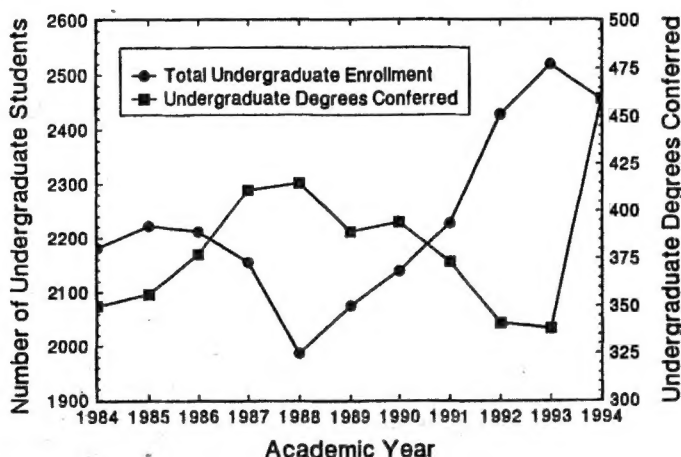
Employment Rates for New (Spring 1994) Graduates



Graduate Enrollments and Degrees Conferred



Faculty of Engineering Sponsored Research Funding



Undergraduate Enrollments and Degrees Conferred



# Literary theorist's views on the stereotype acclaimed in Quebec

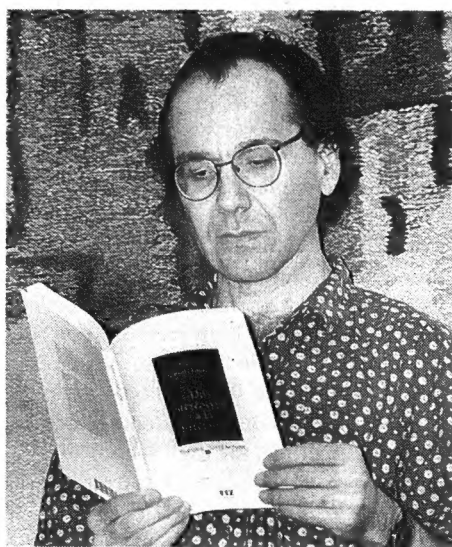
By Ron Thomas

"It's not that French and English Canada don't want to understand each other, it's that they're in a discursive prison."

That's the view of Daniel Castillo Durante, a literary theorist who would love to help stage a jailbreak.

An Assistant Professor of Modern Languages and Comparative Studies, Dr Castillo Durante's focus is the stereotype—in conversation and on the printed page. "As a speaker, a francophone is likely going to recycle the perceptions and clichés of English Canada under what I call the logic of the stereotype, and an anglophone will likely do the same. This is the age of communication; I call it the age of misunderstanding."

Dr Castillo Durante offers another example. "When a man says, 'I love you, Mary!' "it really means that because he's saying that Mary has to love him. What's at work is not really what the subject is saying. The speaker must try to understand the other person rather than replacing him or her with a copy. The basic mis-



Daniel Castillo Durante

understanding between people is that one cares about the copy of the other."

In his book *Du stéréotype à la littérature* (From stereotype to literature), Dr Castillo Durante introduces "a kind of philosophy

of language" that tries to understand the conditions of possibility of the blindness of the subject when he speaks with someone else.

"What makes a stereotype is the heart of Castillo Durante's book," Jonathan Hart of this University's Department of English writes in *Canadian Review of Comparative Literature* (December 1994). "To understand the relation between the subject and language, we have to comprehend the difference between borrowed thought or loaned language (such as the cliché) and the stereotype. This is the task Castillo Durante set for himself."

Académie des Lettres du Québec recently awarded the book the prestigious Victor-Barbeau Prize and indicated that it could lead to a better understanding between French- and English-speaking peoples in Canada. The Académie also said that the book opened a new perspective in research about the problematic relationship between the subjects and language.

Dr Castillo Durante was born in Argentina, and was raised and studied in

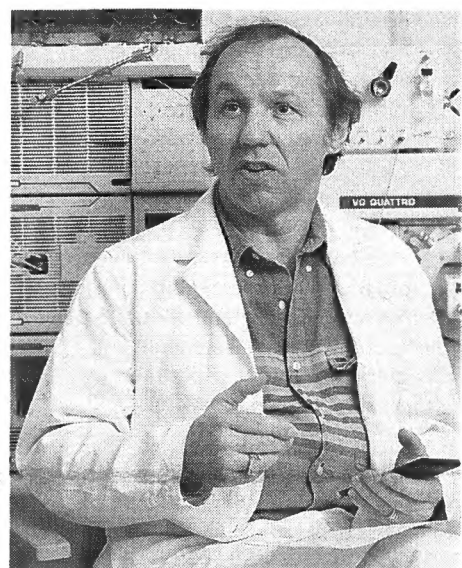
Paris. He has taught in Argentina, in France and at Université de Montréal. He came to the University of Alberta in 1992. His latest book, *The Literature and the Slaughterhouses of Modernity*, will be published in Germany this summer. In it, Dr Castillo Durante tries to get at how the blindness between subjects can explain why societies in general finally are threatened by violence.

Dr Castillo Durante is the director of the Interdisciplinary Seminar on Cultural Practices; a successful conference entitled "Visualizing Intertextuality in the Globalization of Cultures" was held in the framework of this seminar in March.

## Top MRC award to University of Alberta scientist

**Hodges one of six Canadians honoured with new award**

By Judy Goldsand



Dr Robert Hodges leads Canada's Protein Engineering Network of Centres of Excellence.

The most prestigious honour bestowed by the Medical Research Council of Canada (MRC) has been awarded to a University of Alberta scientist. Dr Robert Hodges (Biochemistry) has been named an MRC Distinguished Scientist, one of six throughout Canada. The new five-year award is designed to support the salary of highly renowned scientists who are at the forefront of health research among the world leaders in their fields.

Dr Hodges, who obtained his PhD from the University of Alberta and then took postdoctoral training at Rockefeller University, is a founding member of the MRC Group in Protein Structure and Function, director of the Alberta Peptide Institute and leader of the Protein Engineering Network of Centres of Excellence which has its headquarters at the University of Alberta. As Network leader, Dr Hodges coordinates the work of 53 internationally recognized scientists at 18 universities, research institutes and laboratories across Canada.

"The Medical Research Council of Canada is proud to recognize the outstanding career achievements of Dr Hodges by providing this award and continued financial support for his research," says MRC President Dr Henry Friesen.

Dr Hodges has made major contributions to the understanding of the protein interactions involved in muscle contraction, bacterial adherence and in the *de novo* design of proteins, through the use of synthetic peptides, chemical cross-linking, immunochemistry and biophysical approaches.

MRC is the major federal agency responsible for funding health research in Canada.

## Chemical Engineering expanding its cooperative education for students and employers

Action supported by Access Fund

By Michael Robb

Employers like cooperative education programs.

"We believe in coop programs and have been encouraging the University for a long time to increase accessibility," says PCL Constructors Inc Chief Executive Officer Joseph Thompson. "We hire all our university graduates through coop programs."

Over at Imperial Oil Resources Limited the story is the same. "In 1994, approximately 75 percent of our engineering students were coop students from programs at the University of Alberta and elsewhere," says the company's Vice-

President and General Manager, Howard Dingle.

Those sentiments are also being expressed at companies such as Celanese Canada Inc, PanCanadian Petroleum Ltd, Canadian Utilities Gas and Weyerhaeuser Canada.

It's not surprising, then, that the provincial government's Access Fund adjudicators decided to back a proposal from the Department of Chemical Engineering to expand its cooperative education program. "Employers and students certainly recognize the advantages of the coop program," says Chemical Engineering Chair

Sieghard Wanke. For employers, it represents a noncommittal screening program, and for students it represents valuable work experience and enhanced job prospects upon graduation.

The department has been given the go-ahead to expand its coop program and create a partial trimester system. The department wants to increase the number of students receiving BSc degrees in Chemical Engineering in the Cooperative Program from about 19 per year to about 48 per year, and to increase the quota of the number of students entering the chemical engineering program in the second year from 65 to 75.

The content of both the cooperative and regular BSc programs will remain essentially the same. The regular program is four years and the cooperative program is five years. The department will, however, offer academic terms during the summer, May to August. The partial trimester system is needed, say the program's supporters, to accommodate the large proposed increase in the cooperative education program. Students in the coop program will be more equally distributed with employers throughout the year.

"We'll have fewer problems placing our students during the September to December and January to April terms," Dr Wanke explains. "It's much tougher in the May to August period." Adds PanCanadian's Manager of Development Studies, George Besserer, "The summer academic term will provide increased flexibility in maintaining a better distribution of work terms over the year."

Dr Wanke also points out that the expansion of the coop program will alleviate some stress on the department's laboratories and result in better year round use of facilities.

The expansion will be phased in beginning this September, with the Access Fund contributing \$291,547 annually in ongoing funding. Tuition fee funding is expected to total \$134,693 and the institution is expected to pick up annual costs of about \$67,785. Total ongoing annual expenses total \$494,025. Much of that money will be used to pay staff required for teaching the summer academic terms, including two academic staff, one to start 1 July 1996, and another to start 1 July 1998. One sessional instructor is scheduled to start 1 September 1997. Nonacademic staff will also be hired.

## Masters of all they survey

Students, thanks to Calgary firm, use precision equipment

By Michael Robb

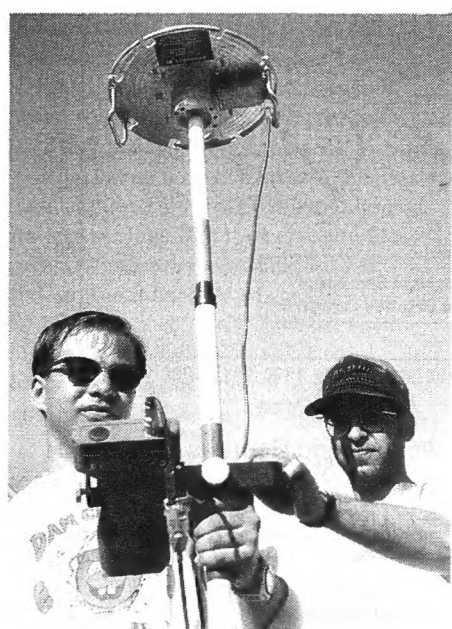
Every spring, students in the Civil Engineering Department's survey school take to the hills, the Beaver Hills to be specific, about 40 kilometres east of the city. For several days, the Blackfoot Grazing Reserve area is swarming with eager students hauling survey equipment up and down hills, over bogs and around trees.

This year, Civil Engineering 251 students had a new tool in their toolbox: a state-of-the-art survey instrument able to locate points on the Earth to within a couple of centimetres. Thanks to Gemini Positioning Systems Ltd, a Calgary company and the Canadian distributor for the Ashtech Z-12 global positioning system (GPS) receiver, students worked with surveying equipment second to none.

At any one time, the computerized equipment tracks four satellites orbiting the Earth and is able to locate heights to within two centimetres and latitude and longitude to within one to two centimetres. The system is commonly used in open pit mines.

Gemini engineer Naush Ladha says the company believes it's important to work with postsecondary institutions and to give students hands-on experience with the latest equipment on the market. Although, he hastens to add, it's still important that students learn the basics.

Civil Engineering Professor Art Peterson agrees. The concepts remain the



Gemini Positioning Systems Ltd engineer Naush Ladha, left, and Civil Engineering student Troy Letwin use the Ashtech Z-12 GPS receiver, state-of-the-art surveying equipment.

same. It's great for students to use the old technology and new, state-of-the-art technology, side by side, he says. The company's equipment is loaned to the department at a very low cost. The purchase cost is about \$100,000, says Ladha, and coming down in price continually.



## Malin heads Alumni Association

By Ron Thomas

Lloyd Malin, QC, a 1970 graduate of the Faculty of Law, is the new president of the University of Alberta Alumni Association.

Malin, who was elected by the Association, will serve a one-year term of office beginning 1 July.

With the Association having just approved a three-year strategic plan (1995-98), he says his first priority will be to home in on five "key result areas": Communications, Celebration and Recognition, Focusing Volunteer Energy, Programming Evaluation, and Financial Stability and Human Resources.

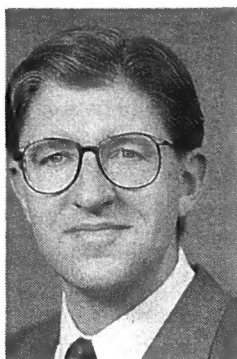
"The Alumni Association is very much excited by and wants to be part of the [University's] new strategies that have been expressed by [President] Rod Fraser and [Chancellor] Lou Hyndman," Malin says. "We want to be part of the renewed energy of the University."

About 43,000 of the University's 135,000 alumni reside in and around Ed-

monton. "There's work aplenty for us in terms of strengthening the ties locally, nationally and internationally," he says, indicating that more use will be made of Alumni House and more events that will bring alumni back to campus will be developed.

Malin is a partner in the law firm Milner Fenerty and currently chairs the firm's Institutions and Private Corporations Practice Group.

A former Faculty of Law representative on Alumni Council, he was the Alumni Association's Vice-President (Finance) in 1994-95.



Lloyd Malin

## Seeking United Way Loaned Representative

By Folio staff

Want to gain some fundraising experience, hone your organizational skills, work with a variety of people and get to know your community better? And get paid for it?

The Edmonton United Way Committee is looking for a Loaned Representative from the University of Alberta.

The 12-week secondment runs from 28 August to 17 November. The first week will be spent in training at the United Way office. The remaining 11 weeks will be spent organizing United Way activities in our city.

No fundraising experience is needed. Training features United Way orientation,

public speaking, sales promotion, presentation and negotiation skills, and goal setting.

Central administration will reimburse your department for your salary. But, as Gail Bamber, a former Loaned Representative from the Office of the Vice-President (Academic), points out: "There really is not a price tag that one can put on an experience such as this."

The application deadline is Friday, 23 June. Please submit your résumé, with your supervisor's written approval, to: John Barry, Director, Physical Education Operations, W1-34L Van Vliet Centre, fax: 492-1008. Glenn Harris, VP (Finance and Administration), will make the final selection.

## Fraser pleased with Asia trip

By Folio staff

Positioning is to the University of Alberta what location is to real estate.

President Rod Fraser spends a sizeable portion of his time spreading the word about the University, informing leaders and opinion makers about what it's doing and what it wants to do.

Looking back at his 8-31 May visit to east Asia (Republic of China, Hong Kong, Japan) Dr Fraser said five areas of interest were pursued:

- raise the profile of the University with respect to attracting outstanding students;
  - build on existing exchange agreements and sign new ones;
  - develop the alumni base in each country;
  - meet and spend time with major benefactors and potential major benefactors;
  - size up the potential for joint enterprises with universities, government and the private sector in each country.
- "Knowledge of the existence of the University of Alberta is not as high as I

think it should be," Dr Fraser commented. "Enormous numbers" of Asian students leave to study in the United States, United Kingdom and elsewhere, and the U of A has to assert itself more if these students are to enroll here, he said.

During his visit to Japan, Dr Fraser, on behalf of the University, signed a Cooperation Agreement with the Tokyo Institute of Technology, an engineering and science school that the Japanese liken to MIT. The Agreement will foster exchange of faculty, research data and academic materials.

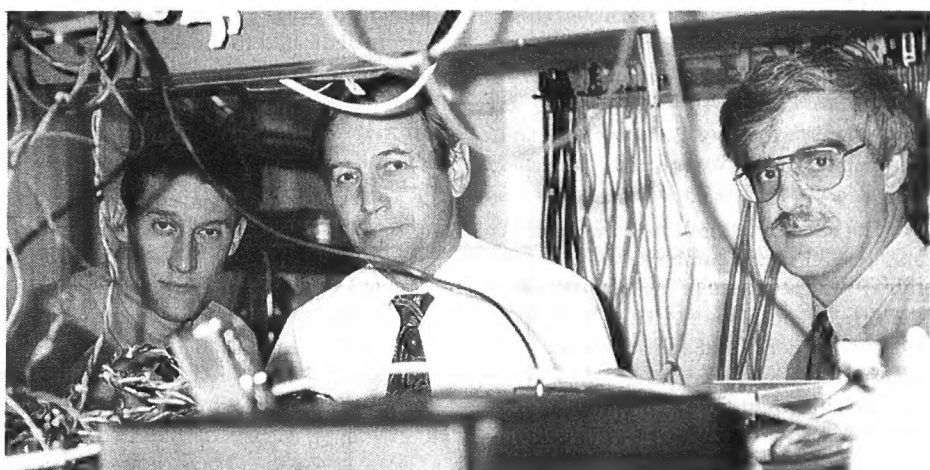
Among Dr Fraser's other points of call were the Canadian Education Centre in Taipei, National Taiwan University, Chinese University of Hong Kong, Hong Kong University of Science and Technology, Nagoya University of Commerce and Business Administration, Japan Foundation, and Daishowa Paper Manufacturing Ltd.

Reciprocal visits are planned, the first three of which will bring the presidents of Japan's Meiji University, Gakushuin University and Niigata University here in the next three months.

## Noise: the deadly enemy in the world of communications

Jan Conradi seeks to reduce fibre optic noise

By Michael Robb



At work at TRLabs: Electrical Engineering Professor Jan Conradi, centre, is collaborating with University of Saskatchewan Electrical Engineering Professor Dave Dodds, right, and graduate student Mike Sieben.

A University of Alberta electrical engineering professor and his colleague at the University of Saskatchewan are examining ways of reducing unwanted noise on fibre optic communications systems.

"It's quite an important element in any optical communications system using optical amplifiers," says Jan Conradi, who, along with Dave Dodds, at the U of S, has been awarded \$179,483 from the Natural Sciences and Engineering Research Council collaborative projects grant program over three years.

Many of the signals travelling through fibre optic networks are amplified or boosted while they're still optical signals. The signal goes into optical amplifiers at one power level and emerges at a higher power level.

"In the process of doing that, certain kinds of noise are added and also amplified," explains Dr Conradi, the NSERC/BNR/TRLabs Chair in Fibre Optic Communications. "And noise is always unwanted."

The noise is caused by extra light produced inside the optical amplifiers, which act a little bit like lasers. Drs Conradi and Dodds are trying to minimize the amount of added light. "You want to reduce it as much as possible, but at the same time you don't want to interfere with the signals being sent through the amplifier."

"Our original intention was to look only at the noise that's added by these optical amplifiers, but the field was moving so fast that we had to put a student on

that work before we wrote up the final NSERC application," Dr Conradi explains. "So, now what we're doing is looking at optical signals that have passed through these optical filters and what that does to signals encoded in the light beam," he says, adding that the team of researchers is also looking at the design of different filters that will remove much of the noise.

There's another aspect of the work—increasing the carrying capacity. "In the course of doing these filter designs, we're also interested in designing filters that can be used to combine many optical signals, each at a different wave length. That way you can add extra capacity to the fibre optic network," he explains. "We hope to have fully functioning filters in the third year."

Almost all long-distance telephone calls are being carried by fibre optic networks. EdTel and AGT have them. Single commercial fibres are capable of carrying 30,000 simultaneous phone calls.

The principal sponsors of Drs Conradi and Dodds' other communications research, carried out at TRLabs, include the major telephone companies, telephone equipment manufacturers, NSERC and TRLabs. It's the latter group, Dr Dodds points out, that has made so much collaboration possible. "TRLabs provides access to other researchers and the industrial sector. We listen to what industry's needs are and that gets us thinking as researchers about how we can meet those needs."

## Retirement Seminar

Have you been offered a retirement package?  
Need professional investment advice?  
Plan to attend this informative seminar:

Date: June 22, 1995

Place: Education Building South, Room 122  
(U of A Campus – 87 Ave. between 112 & 114 St.)

Time: 1:00 - 2:00 pm



Stan Davies



Ray Martin

If you are unable to attend but would like a personal response to any financial strategy questions you may have, please call us at 486-5000.

**IG Investors Group**  
YOU'RE WORTH MORE



# Senate appoints new executive officer

## Sandra Kereliuk no stranger to University

By Folio staff

The Senate has appointed Sandra Kereliuk as its next executive officer. She will succeed Mary Totman, who is retiring 30 June, after 18 years with the Senate.

Kereliuk earned her Bachelor of Physical Education degree from this University in 1980 and a Master of Arts degree in Physical Education in 1982.

In 1984, she began a decade-long association with the University's Office of Alumni Affairs. There, she administered 24 programs and services for the Alumni Association. In 1991, she assumed responsibility for managing the Association's branches.



Sandra Kereliuk

# Technology in learning

Continued from page 1

can either be suppliers or buyers; there's a real urgency to this."

Released earlier this week, the task force recommends that the University develop policies which reflect that commitment, including a reallocation of resources for developing partnerships and technology-based learning materials. It also calls on the University to develop support and reward systems to promote teaching innovations and the development of effective electronic resource materials and courseware.

The task force suggests the University must ensure that an adequate infrastructure is in place to "support a technology-enhanced learning environment." It also suggests the Vice-President (Academic) develop a strategic plan. "The urgency of the need to make the transition to a multimodal, technology-intensive delivery model requires that the plan be developed and implemented quickly."

- That plan could include:
- Goals that will be supported by technology;
  - Institutional performance measures;
  - Defined roles for deans and chairs;
  - Training and support for students and staff;
  - A plan for upgrading classrooms;
  - Planning for reallocating resources;
  - Strategic alliances with other postsecondary institutions;
  - Collaborative development of research activities on alternative delivery techniques;
  - Priorities and time frames for developing the learning environment; and,
  - Communication mechanisms for promoting an exchange of information on databases, software, course modules and equipment.

The task force makes three additional suggestions: the University establish an instructional innovation hub to promote initial leadership, coordination, staff training and demonstrations of technological

innovations for teaching and learning; creation of a multidisciplinary degree, for example, technology industry studies or global technology studies; and, adding a requirement within all doctoral programs that students complete a course on effective instructional design using alternative delivery methods.

The U of A must meet the needs of life-long learners, Storey says. And if the University doesn't reach out to those students, it will lose them to other institutions. "We have some stiff competition."

Many of the recommendations are designed to keep the University of Alberta in the forefront of that competition, adds Chancellor Lou Hyndman. Many initiatives are already under way on campus, he said, but they're going on in a fragmented way. "It's time to pull those together and establish some short- and medium-term goals."

The task force was established by the Senate in August 1994. It was directed to examine and make recommendations to the University community on: current technologies and future trends in education delivery; technology and the future of teaching and learning; and, consequences and opportunities for postsecondary education.

Members of the task force are Dianne Storey, chair; Christina Andrews, Senate member; Colin Baril, undergraduate student; Stephen Black, Senate member; Robert Busch, professor; Graham Cheeseman, Senate member; Bernie Keeler, Senate member; Milt Petruk, professor; Marina Verhoeven, graduate student; Mary Totman, executive officer, Senate; and Judy Weiss, task force coordinator.

The task force outlined its report in the Civil Electrical Engineering Building's interactive, video-conferencing room Wednesday. It was broadcast simultaneously to The University of Calgary Senate. The task force will revise its draft report, based on suggestions it receives, and submit a final report in the fall.

# Synapse Publishing on display at G-7 summit

## Part of the information highway display

By Folio staff

Synapse Publishing has been invited to participate this week in Bell Canada's Group of Seven information highway exhibit in Halifax.

Led by U of A Neurology Professor Andrew Penn, Synapse Publishing is a team of software engineers and medical editors dedicated to the deployment and management of medical information on the Internet. The company has developed a software system to meet the specific demands of the medical community, by

publishing current medical literature with an emphasis on evidence-based medicine.

The Halifax exhibit is an 8,000-square foot visual interpretation of the information highway, consisting of a number of stage settings that represent familiar settings such as home, car, park, health care centres and retail outlets.

More than 1,500 members of the world press are expected to cover the G-7 conference, and strong representation by national press is anticipated.

## INFORMATION SESSION

### FACULTY RENEWAL EARLY RETIREMENT PROGRAM

Academic staff members who have been advised that they are eligible to participate in the Faculty Renewal Early Retirement Program may wish to attend an information session on this program, which has been scheduled as follows:

Date: Wednesday, 21 June

Time: 10:30 am - noon

Location: Room 129 Education South

The session will follow a question and answer format with representatives from the Office of the Vice-President (Academic), the AAS:UA, Pension and Benefits and an income tax/pension professional in attendance. Further information can be obtained from the Office of the Vice-President (Academic) at extension 1917.

## SELECTION COMMITTEE FOR DEAN, FACULTY OF AGRICULTURE, FORESTRY, AND HOME ECONOMICS

A Selection Committee for Dean of the Faculty of Agriculture, Forestry, and Home Economics is being established.

The GFC Nominating Committee requires for this committee one (1) academic staff representative from Category A1.0, from outside the Faculty concerned, elected by GFC. For staff category definitions, see Section 5 of the GFC Policy Manual. In brief, Category A1.0 includes full-time, continuing faculty (tenure-track and soft-tenure-track), Administrative Professional Officers, Faculty Service Officers, and Librarians. If you have any questions regarding the categories of staff and/or eligibility to serve on this committee, contact Ms V Pemberton-Pigott, Coordinator, GFC Nominating Committee, 2-5 University Hall (extension 1938 or e-mail: val.pemberton@ualberta.ca).

If you wish to submit a nomination, please forward a letter of nomination and brief biographical sketch to Ms Pemberton-Pigott at the above noted address by Friday, 30 June 1995.

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# Crowshoe and Edmunds second time winners of Darcy Tailfeathers' Award

By Judy Goldsand

New medical graduates Lindsay Crowshoe and Danika Edmunds were presented last week with 1995 Darcy Tailfeathers' Memorial Awards. It was the second time each had won the award, which is given annually to successful candidates of Native ancestry who demonstrate satisfactory academic standing, leadership qualities and commitment to Native traditions and values.

Both are making history in Canada. Lindsay Crowshoe, from the Peigan Nation, is the first Alberta Native to graduate from the University of Alberta's Faculty of Medicine. Danika Edmunds is the first Inuit woman to receive a medical degree in Canada.

Crowshoe, who has won many academic and athletic awards, also starred in a Treaty 7 Health Careers Video, was keynote speaker at the Third Annual Aboriginal Youth Conference and has participated in numerous career workshops. He has been active in the Native Medical Students Association and is a Board member of the Native Physicians Association. Crowshoe will do a residency in Family Medicine at The University of Calgary, where his wife, Melanie, is a first-year medical student.

Edmunds is a Labrador Inuit who grew up in Newfoundland and completed her undergraduate studies at Memorial University before coming to the University of Alberta. Her influence as a role model is extensive. She, like Crowshoe,



Dean of Medicine Lorne Tyrrell with Lindsay Crowshoe and Danika Edmunds, 1995 graduates in Medicine and winners of Darcy Tailfeathers' Awards.

has appeared on numerous health career posters. The demand for the Faculty Poster/Calendar with Edmunds' photo has been so great in the Northwest Territories that the NWT government has ordered enough posters to send one to every community in the Territories. She recently appeared on the cover of *Native Woman*, a national publication, and is often interviewed by media. Edmunds, who is a talented pianist and keen skier, will remain at the University of Alberta to pursue Family Medicine.

# Hrudey chairing NATO panel on environmental security

By Ron Thomas

Setting his newly won (7 June) Emerald Award to the back reaches of his worktable, Steve Hrudey starts looking at the 40 applications to the NATO Advisory Panel on Environmental Security that he chairs.

Being singled for helping to promote environmental awareness in the province was much appreciated but, as a leading environmental scientist and researcher, Dr Hrudey had to quickly deposit the moment in his memory bank. He'll be jetting to Brussels in a couple of weeks where, with the eight members of the panel, decisions on the applications will be made.

The panel, which oversees an annual budget of some \$2 million, is equivalent to an NSERC grant selection panel, Dr Hrudey says. "We rank applications and fund a number of activities that we choose based on merit. NATO then carries out negotiations with respect to how much [funding] each applicant gets."

Dr Hrudey encourages University of Alberta researchers to apply for the fall and subsequent meetings of the panel, bearing in mind that their undertaking should show potential in terms of possibly leading to solutions to an environmental problem. (NATO also has four other advisory panels that accept applications. They are: Disarmament Technologies, High Technology, Science and Technology Policy, and Computer Networking.)

"We're application-driven; all people have to do is apply," Dr Hrudey, holder of

the Eco-Research Chair in Environmental Risk Management, says, adding that the procedures go easy on the red tape.

The panel concerns itself with streamlining East-West collaboration on scientific and technological aspects of innovative and promising projects related to environmental security. Such projects include the reclamation of contaminated military sites, regional environmental problems and natural and man-made disasters.

Emphasis is placed on low-cost technologies addressing significant environmental problems.

# Nursing PhD student awarded honorary degree

By Sandra Halme

Ginnette Rodger can put a Dr before her name even though she's in the final stages of completing her PhD work in the Faculty of Nursing. Rodger was awarded her fourth honorary degree on



Ginnette Rodger

9 June from The University of Calgary.

Rodger, who was cited for her outstanding contributions to nursing and health care in Alberta and indeed the country, expects to receive her "formal" doctorate this fall.

As a former executive director of the Canadian Nurses' Association, secretary-treasurer of the Canadian Nurses' Foundation and director of nursing at Notre Dame Hospital in Montreal, Rodger has been active in advancing nursing education. Among her many influential activities are her efforts as chair of a committee that successfully secured funding for the University's PhD program in nursing, and her work in creating the Conjoint Nursing Program offered by The University of Calgary, Mount Royal College and the Foothills Hospital School of Nursing.

In her convocation address, entitled "Professionals — A Social Responsibility", Rodger spoke about the responsibilities and duties that come with admittance into a profession. Specifically, she addressed the role of the professional in shaping and molding society through community involvement, political action, and involvement in professional organizations.

Rodger has also been awarded honorary degrees from the University of New Brunswick, Queen's University and Université de Sherbrooke.

# Something fishy this way comes

ASIH conference largest on campus this year

By Sandra Halme

On a scale of 1 to 10, the 75th annual conference of the American Society of Ichthyologists and Herpetologists, ASIH, (fishes, amphibians and reptiles), 15-19 June, is shaping up as a perfect 10. With about 600 delegates from some 25 countries, it is the largest conference to converge on campus this year and it is the first time the conference has ever been held in Alberta.

The conference also brings together the American Elasmobranch Society and the Herpetologists' League as well as members of the Canadian Association of Herpetologists.

Joe Nelson, a professor in the Department of Biological Sciences, and one of the principal conference organizers (along with Mark Wilson, a departmental colleague), says contributed papers and poster sessions will cover such topics as systematics, taxonomy, ecology, behav-

iour and many other biological disciplines. Dr Nelson also points out that a special symposia will be held and papers in at least two of the five symposia will be published in separate books. As well, most of the papers given in the contributed paper sessions and in the poster sessions will be published as journal articles (mostly in the international journal *Copeia*).

Many of the ichthyologists (study of fish such as sticklebacks, sharks, suckers, minnows, trout and turbot) and herpetologists (study of amphibians such as frogs, toads and salamanders as well as reptiles such as snakes, lizards, turtles and crocodiles) coming for the conference will be visiting and conducting research in the University's collections of vertebrates. These collections are housed in the Biological Sciences Centre and contain a wealth of material valuable in systematic, taxonomic and ecological studies.

## EVENTS

### EXHIBITIONS

#### BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until 15 August

"A Most Dangerous Voyage"—an exhibition of books and maps documenting four centuries of exploration in search of a North West Passage. Hours: Monday to Friday, 8:30 am to 4:30 pm. B7 Rutherford South.

#### FAB GALLERY

Until 18 June

"Doorways and Windows—Architectural Artifacts from India."

Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm. Information: 492-2081. 1-1 Fine Arts Building.

#### JOHN W SCOTT HEALTH SCIENCES LIBRARY

Until 15 September

"Occupational Medicine: Approaching the Tricentennial, 1700-2000"—an exhibit of books, artifacts and photographs prepared by Dr Tee L Guidotti, Occupational and Environmental Medicine. Hours: Monday to Friday, 8 am to 9 pm; weekends, 10 am to 6 pm. Information: 492-3899 or 492-7947. 2K-328 Mackenzie Health Sciences Centre.

#### McMULLEN GALLERY

Until 1 July

"Vladimir Sevcik—Recent Paintings." Gallery hours: Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm; Tuesday, Wednesday, Thursday, 6 to 8 pm. Information: 492-8428 or 492-4211. Mackenzie Health Sciences Centre.

#### AHFMR

16 June, 2 pm

A Siddiqui, external examiner for Anita Howe, Department of Microbiology, University of Colorado Health Sciences Center, Denver, "Translational Regulation of HCV RNA Genome." 2F1.04 Mackenzie Health Sciences Centre.

16 June, 4 pm

Bruce Jacobson, professor, Department of Biochemistry and Molecular Biology, University of Massachusetts, "Regulation of Cell/Substrate (Matrix) Adhesion by Integrins, Second Messengers and the Cytoskeleton." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

20 June, 4 pm

James A Wright, professor, Department of Biochemistry and Molecular Biology and Manitoba Institute of Cell Biology, University of Manitoba, "Tumor Promoter and Growth Factor Regulation of Mamalian Ribonucleotide Reductase Activity and mRNA Stability." 4-70 Medical Sciences Building.

## TALKS

#### ANATOMY AND CELL BIOLOGY

28 June, noon

Rachel Oates, "Temperature Dependence of Fast Protein and Organelle Transport in the Sciatic Nerve of the Amphibian *Xenopus Laevis*." 5-10 Medical Sciences Building.

#### BIOCHEMISTRY

28 June, 4 pm

Mitsu Ikura, senior scientist, Division of Molecular and Structural Biology, The Ontario Cancer Institute, "Structural Basis for Reversible Membrane Targeting by Recoverin, a Calcium Sensor in Vision." 2-27 Medical Sciences Building.

#### BIOLOGICAL SCIENCES

20 June, 3 pm

Brian E Staveley, "A Study of P Element Alleles of the *Vestigial* Locus in *Drosophila Melanogaster*." G-116 Biological Sciences Centre.

4 July, noon

Brett G Purdy, "Genetic Diversity in Endemic Plants of the Athabasca Sand Dunes: Origin, Evolution, and Implications for Conservation." M-149 Biological Sciences Centre.

#### PHARMACY AND PHARMACEUTICAL SCIENCES

19 June, 3:30 pm

Ken Thummel, associate professor, Department of Pharmaceutics, School of Pharmacy, University of Washington, "Characterization of Human Intestinal CYP3A-Dependent Metabolism *In Vivo* and *In Vitro* Studies with Midazolam." Sponsor: Alberta Heritage Foundation for Medical Research. 2031 Dentistry-Pharmacy Centre.



# POSITIONS



The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

## ACADEMIC STAFF

### ASSISTANT ARCHIVIST (TWO-YEAR TERM)

One of Canada's largest research-intensive universities with an enrollment of more than 30,000 students seeks outstanding candidates for a position as Assistant

Archivist. This a two-year, full-time temporary academic appointment with the possibility of renewal.

Established in 1968, the University of Alberta Archives has over 2,500 linear metres of archival records, including approximately 100,000 photographs relating to the history of the University, Edmonton, Alberta, Canada and higher education. These permanently valuable primary sources are preserved to support the University's mission of research and teaching and to facilitate effective and efficient administration. In addition, the University Archives provides internal consulting services to Faculties, departments and administrative units in records and information management.

Reporting to the Chief Archivist, the Assistant Archivist must be fully aware of archival and records and information theories, practices and technologies. The Assistant Archivist must be able to apply

these theories, practices and technologies in a creative manner in seeking solutions to ever complex problems, such as those posed by automation, freedom of information and privacy legislation, and electronic records. The Assistant Archivist must be prepared to assist in positioning the University Archives in partnerships with other units in the information, research and teaching environments of the University.

The ideal candidate is an effective communicator and a consummate professional in the broad fields of archives and records and information management. A graduate of a master of archival studies program with a minimum of five years' experience or a graduate with an equivalent degree and experience, the Assistant Archivist will be thoroughly conversant with current trends in the field, including the Rules of Archival Description, electronic records, and the impact of technology on records creation, use and disposition. Appreciative of the research and teaching needs of scholarship as well as the demands of administration for timely, concise and accurate information, the incumbent will have a proven record of meeting these needs and satisfying these demands. The incumbent should have experience in working in a team/project management environment. Salary range: \$35,000-\$45,000 per annum, plus benefits.

Interested candidates should submit a curriculum vitae and the names of three references by 30 June 1995 to: Bryan Corbett, Chief Archivist, 5-02 Cameron Library, University of Alberta, Edmonton, Alberta T6G 2J8

### ADMINISTRATIVE PROFESSIONAL OFFICER, DEPARTMENT OF BIOLOGICAL SCIENCES

The Department of Biological Sciences, in the Faculty of Science, invites applications for the position of Administrative Professional Officer (APO).

Reporting to the Chair, the APO is accountable for the planning, establishment and maintenance of an administrative support system to facilitate the teaching and research activities of a large and diverse department. A significant part of this responsibility involves the development of budgeting and accounting functions, including the supervision of the accounting personnel. The department consists of seventy academic staff and sixty-five University support staff, as well as a number of trust employees.

The APO also analyzes and interprets University, Faculty and Department policies, coordinates the activities of support staff, and otherwise assists the Chair to

ensure that the Department operates in an efficient and harmonious manner.

The position calls for someone with initiative and tact, capable of working authoritatively with a variety of people. Applicants should have a university degree and/or considerable administrative experience, preferably at a university, and extensive experience using microcomputers.

Salary range: \$41,184-\$61,776.

Applications, including résumé and the names of three referees, should be forwarded by 4 July 1995 to: Dr S Jensen, Chair, Department of Biological Sciences, CW405 Biological Sciences Centre, University of Alberta, Edmonton, Alberta T6G 2E9

### ADMINISTRATIVE PROFESSIONAL OFFICER, DEPARTMENT OF EARTH AND ATMOSPHERIC SCIENCES

The Department of Earth and Atmospheric Sciences, in the Faculty of Science, invites applications for the position of Administrative Professional Officer (APO).

Reporting to the Chair, the APO is accountable for the planning, establishment and maintenance of an administrative support system to facilitate the teaching and research activities of a diverse department. A significant part of this responsibility involves the development of budgeting and accounting functions including the supervision of the accounting personnel. The Department consists of 37 academic staff and 20 University support staff, as well as a number of trust employees.

The APO also analyzes and interprets University, Faculty and Department policies, coordinates the activities of support staff, and otherwise assists the Chair to ensure that the Department operates in an efficient and harmonious manner.

The position calls for someone with initiative and tact, capable of working authoritatively with a variety of people. Applicants should have a university degree and/or considerable administrative experience, preferably at a university, and extensive experience using microcomputers.

Salary range: under review.

Applications, including résumé and the names of three referees, should be forwarded by 4 July 1995 to: Dr B Jones, Chair, Department of Earth and Atmospheric Sciences, 126 Earth Sciences Building, University of Alberta, Edmonton, Alberta T6G 2E3

### SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.

## Madrigal Singers win choral competition

By Folio staff



The Madrigal Singers photographed at the Hotel Macdonald.

The University of Alberta Madrigal Singers, directed by Leonard Ratzlaff, were declared winners of the Robert Schumann Chorpreis as the first place choir in the Second International Robert Schumann Choral Competition.

The competition, held every three years in Zwickau, Germany, attracted nearly 30 mixed, female and male choirs from more than a dozen countries. It was held 25-28 May.

Devoted to the singing of a cappella music of the 19th and 20th centuries, the competition sets out as its motto a saying of Schumann, the Romantic period composer who was born in Zwickau: "Esteem highly what is old and welcome warmly what is new."

The choir spent two weeks performing in the Netherlands, Germany and the Czech Republic.

## ADS

### ACCOMMODATIONS FOR RENT

**PRETTY THREE BEDROOM BUNGALOW** with trees, spacious patio, big windows. Greenfield area. Nice residential neighbourhood, excellent schools. Express bus to University. Bikepath via University Farm. Furniture optional. July or August, one year. Small families or retired couples. Dog OK. \$750/month. 435-6615.

**WINDSOR PARK** - Three bedroom view home. \$950/month. 433-0212 evenings.

**NORTH GLENORA** - Furnished house, three bedrooms, two bathrooms, two fireplaces, steam room, monitored security system. Under 10 minutes to University by bus/car. No pets. Nonsmokers. Late August to 31 May. \$850/month. 429-5398, 451-3766.

**HISTORIC HOMES/SUITES**, Millcreek/Highlands. Lovely homes, beautiful neighbourhoods. 477-7036.

**COMFORTABLE**, Edmonton, executive home, furnished, near University,

available late June to mid-August, nonsmokers, references, \$600/month plus utilities. (403) 437-2394.

**CHARACTER**, 10957 88 Avenue, five bedroom across/University. Fireplaces, hardwood, 467-0366, 367-2398 collect. Available July.

**RIVERBEND** executive three bedroom bungalow. Furnished, well appointed. Available 1 July. References. 430-7962 after 4 pm. Yard maintenance provided.

**QUIET WEST END**, self-contained, fully furnished housekeeping unit with garden. All utilities included except phone. Must like cats. Easy access to University or Grant MacEwan. Nonsmokers preferred. Phone 451-1684.

**SABBATICAL RENTAL** - Three bedrooms fully furnished, five appliances. Parkallen, near buses, 20-minute walk to campus. January-June (longer-shorter negotiable). Nonsmokers. \$900/month. 437-4423.

**ERMINSKIN** - Three bedroom bungalow, two bedroom basement. Six appliances, two car garage, three baths. Drapes, beautiful crescent, privacy. Available August. Information, call 435-5085.

**PARKALLEN** - Clean three bedroom home. Five appliances, security system,

fenced yard, garage. Excellent bus service. Close to University, shopping, schools. Nonsmokers. \$750/month. 437-2810.

**THREE BEDROOM BUNGALOW** - Sunny Pleasantview location near Southgate and schools. Four appliances, two bathrooms. Available 15 July or 1 August. \$650/month plus utilities. 437-1405 evenings.

**MODERN** three bedroom home near University. One block Mill Creek Ravine. Finished basement, extra bedroom. Large lot, double garage, fireplace, hot tub, washer, dryer, freezer, dishwasher. Other furniture negotiable. \$1,000 per month. Available 15 August. 433-0056.

**FULLY FURNISHED** executive home or main floor only in St. Albert. Heated garage, quiet neighbourhood, 30 minutes to University. No smokers, no pets. Available 1 August. 458-3051.

**ONE BEDROOM UNIT** in Varscona Tower (11007 83 Avenue). \$540/month, includes utilities and parking. Nonsmoker. 988-4278.

**TWO BEDROOM CONDO** - Furnished, \$900/month. Unfurnished, \$700/month. Outstanding view river and golf course. Three blocks LRT downtown or University. 437-0217, fax Andrew, 424-7780.

**LANSDOWNE HOUSE** - Three bedrooms, with appliances, drapes, double garage, finished basement (three rooms plus large rumpus room). Ten minutes to University, near bus, shopping centres, delicious apple and plum trees. \$1,875/month. Utilities. Phone 435-0529.

**THREE DELUXE RENTALS** - duplex, house. Two/three bedrooms. 450-6634, 469-7452.

**ASSINIBOIA HOUSING CO-OP** - Housing for people not profit. Cooperative living rooms available in four houses. 433-4098.

**LARGE TWO STOREY** character home near Millcreek, Old Strathcona. Six appliances. 1 August, \$995. 432-7032.

**MAIN AND UPSTAIRS OF HOUSE** - Walk to University. \$680/month. 438-2929, 492-2982.

**MICHENER PARK** - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University inquiries welcome, 492-7044.

**EXECUTIVE SEMI-DETACHED DUPLEX** - University area, 10643 64 Avenue One year old 2 1/2 storey, three bedrooms, three bathrooms, approximately



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1 SEPTEMBER 1995 TO 30 APRIL 1996 - Furnished west end townhouse. One bedroom, den/office, living room, dining room, washer, dryer, garage. Fifteen minutes to University by car/bus. No pets. Nonsmokers. \$650/month includes utilities. 481-8923.

HOUSE FOR RENT, FULLY FURNISHED, 3,500 square feet, four bedrooms, four baths. Double lot, Old Glenora, eight minutes from campus. \$1,500/month plus utilities. Suitable for professional. References required. Phone 451-3470, leave message.

#### ACCOMMODATIONS FOR SALE

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1,350' EXECUTIVE HOME. Quiet crescent, walk to University, architecturally

appealing. 1122 73 Avenue. \$142,500-May rent. (403) 672-6477, Camrose.

WALK TO WORK! 1,500 square foot, excellent/unique townhouse. Three bedrooms, two baths, garage and parking, air conditioning. 11030 86 Avenue. 432-0791.

RIVERBEND TWO STOREY, four bedroom, 2,300 square foot executive house. Keyhole crescent, near Whitemud Ravine. Close to schools, University. \$206,000. 430-6744.

TWO BEDROOM plus den, 2,000 square feet. Glassed-in balcony, jacuzzi, ensuite, five appliances. LeMarchand Tower. Great facilities. To view, call Janice Duke 488-2331, Royal LePage. 437-7480.

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BELGRAVIA, charming two storey, fully upgraded and updated. Double garage, beautiful yard. Walking distance campus. Open design. Appealing windows. \$239,900. Spencer Realty. 435-0808, Florence Thompson. 436-6833, Pat von Borstel.

GARNEAU PLACE CONDO, 880 square feet, upgraded unit, \$78,000. Re/Max: Raymond, 498-2930.

HISTORIC HOME - 1912, two storey brick, upgraded. Residential/commercial, Millcreek. \$199,000 obo. 477-7036.

LENDRUM - Four level split, 1,770 square feet developed, four bedrooms, 1 1/2 baths, ceramic floors, new carpeting, refinished kitchen, new furnace, air conditioning, security, fireplace, California stucco, countertop stove, new wall oven, window coverings, four appliances included, detached garage. \$160,000. 434-4066.

VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (604) 383-7100, Lois Dutton, Duttons & Company Ltd. #101 364 Moss Street, Victoria, B.C. V8V 4N1

MILLCREEK RAVINE - Half block from ravine, 2,100' two storey, double attached garage, upstairs balcony, beautiful interior. Jean Mackenzie, Sutton Realty. 438-2500.

MILLCREEK/OLD STRATHCONA - Three new listings—a delightful small bungalow one block from ravine, new kitchen.



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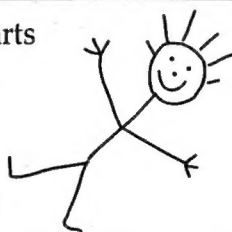
## McKernan Child Care Society

Action Packed Summer Program Starts

June 29, 1995

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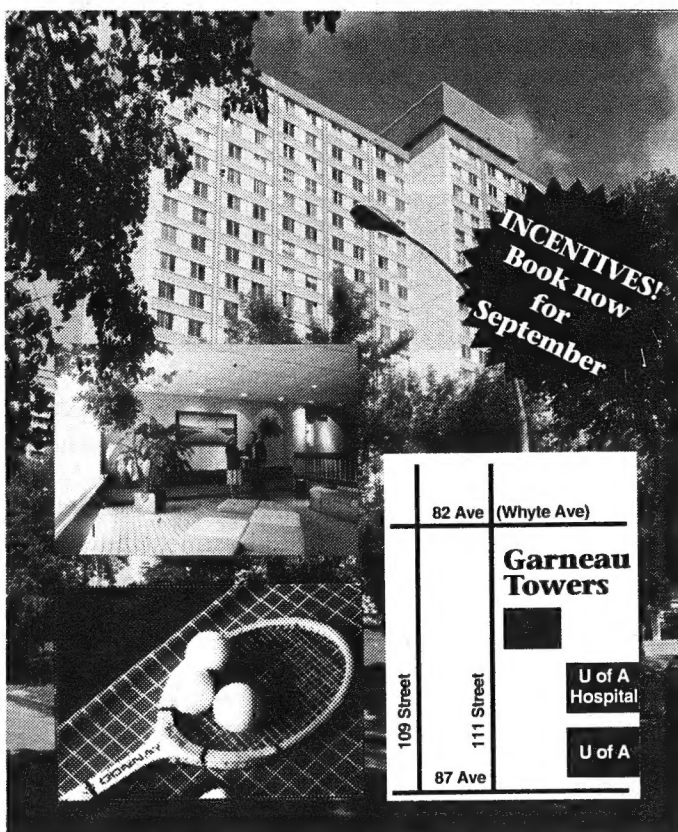


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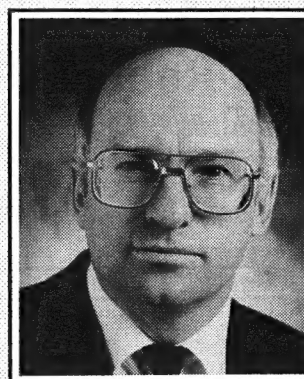
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